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[Strawberries in collective farm orchards] Zemlianika v kolkhoznom sadu. [Moskva] Moskovskii rabochii, 1956. 36 p. (MLRA 9:9) (Strawberries)

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(Strawberry breeding)

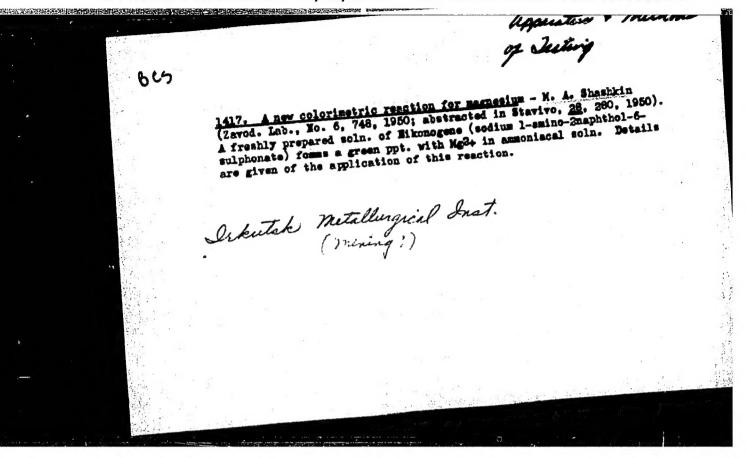
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(MIRA 16:7)

(Amur Valley-Faults (Geology))

(Amur Valley-Metamorphism (Geology))



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ZAKHAROVA, V.S.; KOVALEVA, R.A.; ZALEVSKAYA, T.N. SHASHKIN,

M.A.; KOVALENKO, P.N.; ZAK, A.G.; AKHMETOVA, S.A.; MOSTRYUKOV,

P.M.; VEYSEYSKAYA, H.D.

Brief reports. Zav.lab. 23 no.7:801-802 57.

(MLRA 10:8)

1.Institut geologii rudnykh mesteroshdeniy, petregrafii, mineralegii i geokhimii AN SSSR (for Akhvonen) 2.Dneprepetrevskiy Truboprckatnyy zavod imeni V.I. Lenina (fer Grenberg, Genis) 3. Angarskiy rementnomekhanicheskiy zavod (fer Shashkin) 4.Restevskiy gosudarstvennyy universitet (for Kevalenko) 5. Karagandinskiy zavod sinteticheskogo kauchuka (for Zak, Akhmetova, Mostryukov, Veyseyskaya).

(Chemistry, Analytic)

SHASHKIN .- M.A.

Quantitative determination of gold in cyanide electrolytes. Zav.lab. 27 no.2:145-146 '61. (MIRA 14:3)

1. Angarskiy remontno-mekhanicheskiy zavod. (Gold--Analysis) (Cyanides)

BRAY, I., inzh.; SHASHKIN, P., inzh.

Regeneration of used oils. Avt.transp. 41 no.4:29-32 Ap 163. (MIRA 16:5)

1. Vsesoyuznaya kontora Vsesoyuznogo tresta po regeneratsii otrabotannykh neftyanykh masel Glavneftesbyta Ministerstva neftyanoy promyshlennosti SSSR.

(Gas and oil engines--Lubrication)

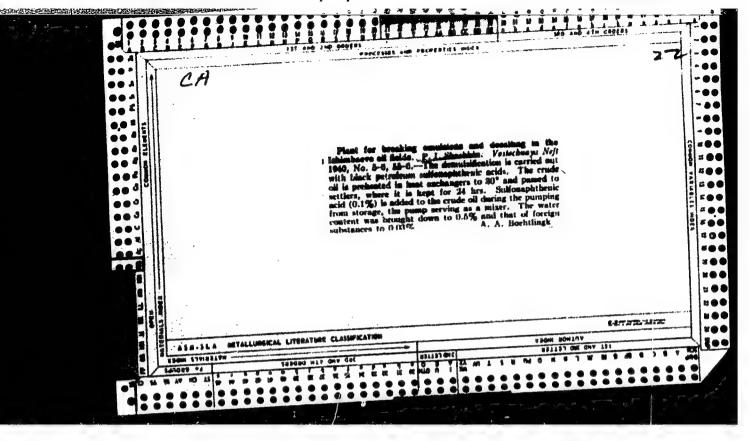
SHASHKIN, P.; ERAY, I.

masel.

Reclamation of used oils. Avt. transp. 43 no.2:15-17 F '65.

(MIRA 18:6)

1. Vsesoyuznaya kontora po regeneratsii otrabotannykh neftyanykh



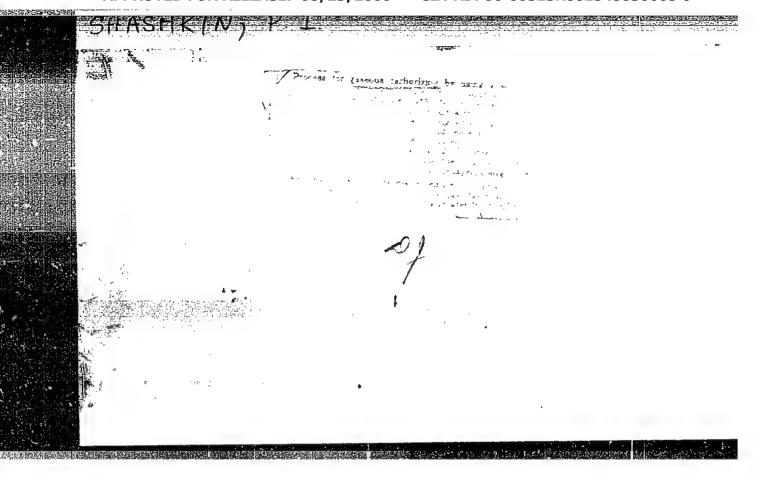
Regeneratsiya otrabotannykh neftyanykh musel; kratkoe rukovodstvo dlya operatorov (Regeneration of waste petroleum oils; brief guide for the operator) Moskva, Gostoptekhizdat, 1952.

110 p. illus., tables
"Literatura": p. 109
At head of title: Russia. Ministerstvo Neftyanov Promyshlennosti.

SO: N/5 735.6 .S5

SHASHKIN, P. I.

[Collecting and storing waste oils] Shor i khranenie otrabotannykh masel. Moskva, Gostoptekhizdat, 1955. 29 p. (MLRA 8:12) (Automobiles--Lubrication)



SHASHKIN, P.1.

25(5)

p.4

PHASE I BOOK EXPLOITATION

sov/1359

- Spravochnik mekhanika mashinostroitel nogo zavoda v dvukh tomakh. t. 1: Organizatsiya i konstruktorskaya podgotovka remontnykh rabot (Handbook for Mechanics of Machinery Manufacturing Plants in Two Volumes. Vol.1: Organization and Design-Preparation for Repair Work) Moscow, Mashgiz, 1958. viii, 767 p. 40,000 copies printed.
- Resp. Ed.: Noskin, R.A.; Candidate of Technical Sciences; Ed.: Gliner, B.M., Engineer; Tech. Ed.: Sokolova, T.F.; Eds. of Set: Borisov, Yu.S., Engineer, A.P. Vladziyevskiy, Doctor of Technical Sciences, and R.A. Noskin, Candidate of Technical Sciences; Managing Ed. for Reference Literature (Mashgiz): Krylov, V.I., Engineer.
- PURPOSE: This handbook is intended for personnel responsible for repair and maintenance operations in machinery manufacturing plants.
- COVERAGE: The handbook contains information on the operation of industrial equipment, organization of repair and maintenance, design-preparation for maintenance work, modernization of metal-cutting machine tools, and the economics of maintenance. Maintenance personnel of the following plants participated in the preparation of this handbook: Leningrad Plant imeni Kirov, Khar'kov Plant

Card 1/13

Handbook for Mechanics of Machinery (Cont.)

sov/1359

for Transport Machinery imeni Malyshev, Moscow Plant imeni Likhachev, Chelyabinsk Tractor Plant, etc. Contributions by the following are also acknowledged: workers of scientific research institutes (ENIMS, TSNITTMASH, NITI) and vtuzes (MVTU imeni Bauman, Leningrad Polytechnical Institute, Moscow Institute for Engineering Physics, Moscow Industrial Engineering Institute); and workers in engineering and planning institutes (VPTI b. MINTRANSMASH, VPTI b. MINTYAZHMASH, GSPI-8). There are no references.

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JG/fal 4-17-59

SHASHKIN, P., inzh.

New electric furnaces used in oil purifying units. Avt. transp. 36 no.12:20 D 158. (MIRA 11:12) (Electric furnaces) (Oil reclamation)

SHASHKIN, P. I., Cand Tech Sci -- (diss) "A contactless method of cementation by use of a solid carburizer." Saratov, 1960. 14 pp with diagrams; (Ministry of Higher Education USSR, Saratovskiy State Univ im N. G. Chernyshevskiy); 150 copies; free; (KL, 19-60, 136)

SHASHKIN, Prokhor Ivanovich, Prinimali uchastiye: ZILLER, G.K.; BEREZHNAYA, V.D. LZVINA, Ye.S., vedushchiy red.; POLOSINA, A.S., tekhn.red.

[Reclamation of spent petroleum oils] Regenerataiia otrabotannykh neftianykh masel. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 303 p. (MIRA 13:11) (Oil reclamation)

Л 161.

SHASHKIN, P.I., inzh.; BRAY, I.V., inzh.; KISELEV, A.A., inzh.; MASLENKOVSKIY, L.G., inzh. Unit for regenerating the wash liquid. Vest.mash. 41 no.7275-76 (MIRA 14:6)

(Cleaning compounds)

CIA-RDP86-00513R001548630005-9" APPROVED FOR RELEASE: 08/23/2000

SHASHKIN, P.I.; BRAY, I.V.; KISELEV, A.A.

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RM_100 oil reclaiming unit. Nefteper. i neftekhim. no.8:22-27 63. (MIRA 17:8)

1. Vsesoyuznaya kontora po regeneratsii otrabotannykh neftyanykh masel.

SHASHKIN, S.V.

PHASE I BOOK EXPLOITATION

318

Demichev, Aleksey Dmitriyevich and Shashkin, Semen Vasil'yevich

Vysokochastotnaya zakalka (High-frequency Case Hardening) 2nd ed., rev. and enl. Moscow, Mashgiz, 1957. 52 p. (Bibliotechka vysokochastotnika-termista. Vyp. 3) 10,000 copies printed.

Ed.: (Title page): Fogel', A.A., Candidate of Tech. Sciences; Reviewer: Donskoy, A.V., Dr. of Tech. Sciences, Prof.; Ed. of Publishing House: Gofman, Ye. K.; Tech. Ed.: Speranskaya, O.V.; Editorial board of series: Fogel', A.A., Candidate of Tech. Sciences (Chairman); Spitsyn, M.A., Candidate of Tech. Sciences, Slukhotskiy, A.Ye., Candidate of Tech. Sciences, Glukhanov, N.P., Candidate of Tech. Sciences (Ed. of this issue); and Baumner, A.V., Engineer. Chief Ed. of the Leningrad Division of Mashgiz: Bol'shakov, S.A., Engineer.

PURPOSE: This booklet is one of a series published for the purpose of promoting high-frequency case hardening/pooling advanced production "know-how". It is intended for a large circle of industrial workers interested in the techniques of high-frequency case hardening.

COVERAGE: The authors give general descriptions of high-frequency devices for induction case hardening of steel and cast-iron products. They discuss the problem of selecting proper frequencies to be used in case hardening of

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High-frequency Case Hardening (Cont.) various surfaces of various shapes. There are 11 references	318 s, all USSR.	
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DEFICHEV, A.D.; GOLOVIN, G.F.; SHASHKIN, S.V.; DONSKOY, A.V., doktor tekhn. nauk prof., retsenzent; FOGEL', A.A., kand. tekhn. nauk, red.

[High-frequency hardening] Vysokochastotnaia zakalka. Izd.3., ispr. i dop. Pod red. A.A.Fogelia. Moskva, Mashinostroenie, 1965. 83 p. (MIRA 18:12)

- 1. SHASHKIN, S. G., Eng. KATS, N.V.
- 2. USSR (600)
- 4. Machine Tools Maintenance and Repair
- 7. Establishing a mtandard system for planned, periodic repairs. Vest mash No. 1 1953

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

SHASHKIN, S.V., inshener

Theory and method of constructing locomotive turnover graphs having 168 and 336 hour grids. Trudy Khab. IIT no.8:28-40 155.

(Railroads--Management) (MLRA 9:1)

SHASHKIN, V.L.

Source of material forming sedimentary deposits. Trudy Inst. geol.KirFan SSSR no.5:117-122 '54. (MLRA 9:12)

(Ore deposits)

SHASKIN, V.L.

Control of geological specimen analyses according to group specimens.

Razved. i okh.nedr. 21 no.4:21-26 J1-Ag *55. (MIRA 9:2)

(Ores--Sampling and estimation)

15-57-1-953

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 1,

p 152 (USSR)

AUTHOR:

Shashkin, V. L.

TITLE:

Controlled Sampling and Controlled Analyses of Geologic Samples (O kontrol'nom oprobovanii i kontrol'nykh analizakh geologicheskikh prob)

PERIODICAL:

Tr. In-ta geol. AN KirgSSR, 1956, Nr 7, pp 111-124.

ABSTRACT:

The author points out that in the literature it is not easy to detect the difference between controlled sampling and controlled analyses of samples. He concludes that it is necessary to introduce compulsory controlled sampling during exploration for nonferrous and rare metals and to include special requirements for controlled sampling in the actual instructions for VKZ /Vsesoyuznaya komissiya po zapasam polezhykh isko-

payemykh (All-Union Commission of Mineral Resources)7. Considering the questions of the representative

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character of sampling, N. V. Baryshev Tochnost

15-57-1-953

Controlled Sampling and Controlled Analyses (Cont.)

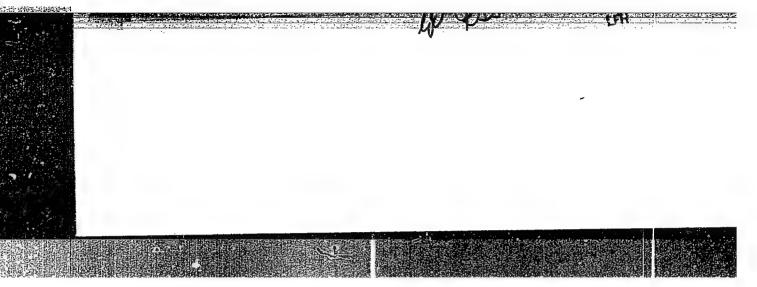
analyza prob, ispolizuyemykh diya podscheta zapasov. Materialy VKZ, Vyp. I, Gosgeolizdat, 1948 (The Precision of Analyzing Samples Used for Calculating Reserves). Data from VKZ, Nr 1, State Geological Literature Press, 19487 with complete justification proposed that the requirements for the precision of analysis be determined on the basis of a linear relationship for the degree to which the samples are representative. However, this proposal, in its time, reflected neither the methods of sampling nor the instructions for VKZ. Permissible accidental errors in analyses, listed in the instructions for VKZ, consider only analytical possibilities and do not consider at all the representative nature of the sampling in reference to different determinations of mineralization. It follows that standards for permissible average accidental error in the analyses of samples, associated with the degree to which the samples are representative, should be treated and included in the instructions for the VKZ. This error is characterized by the average divergence between basic and controlled sampling. Such established standards permit one to make wider use of the simplified methods of sampling and of analyzing samples. Card 2/3

15-57-1-953

Controlled Sampling and Controlled Analyses (Cont.)

By considering the representative character of samples, one might admit the use of simplified methods of sample selection which increase accidental errors but do not admit systematic errors. The selection of methods for treating results of controls leads the author to conclude that the views of I. P. Sharapov (Razvedka i okhrana nedr, 1954, Nr 1), B. Ya. Yufa (Razvedka i okhrana nedr, 1951, Nr 6), and N. V. Baryshev (Kontrol' oprobovaniya. Materialy VKZ, Vyp. 2, Gosgeolizdat, 1948) on the statistical methods of showing systematic errors involve a number of fundamental failings and that the use of such methods cannot be recommended. The author believes it most expedient to prepare group controls, which may be used both for internal and lateral controls. He describes the techniques of selecting group controls, the method of treating the results of the controls, and the advantages of the recommended method.

A. P. P.



Handbook on Radiometry for Geophysicists and Geologists 785

The book surveys the radioactive elements and gives their essential characteristics. Terminology and units are defined and theories of radioactivity explained. Material on apparatus and applied prospecting is limited to about 50 pages. Of particular interest is Chapter VI, dealing with the problem of determining the geological age of any given formation by radioactive methods. There are 95 tables, 21 figures, 122 Soviet references and 54 English, 4 German, and 1 French reference.

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MM/wh1 12-4-58	
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SHASHKIN, V.L.

AUTHOR:

PA - 2052 ŠAŠKIN, V.L.

TITLE:

Quantitative Radiometric Measurements of Radioactive Ores in

their Natural Deposits.

PERIODICAL:

Atomnaia Energiia, 1957, Vol 2, Nr 1, pp 48-53 (U.S.S.R.)

Received: 3 / 1957

Reviewed: 3 / 1957

ABSTRACT:

Report 1: The measurement of the f -radiation of radioactive ores in their natural deposits, i.e. immediately when working in the mine drift or in a fissure allows the determination of the percentage of radioactive elements of the ores without the selection of samples and without a chemical analysis. The preciseness of such qualitative measurements depends to a great extent on considering the spectral composition of the f -radiation to be investigated. The spectrum of the f-rays of the radioactive ores is determined by the scattering of radiation and depends on the composition of the ore. The intensity, however, of the recorded f -radiation of the ore deposit depends on the material of the cathode of the counter (tungsten, copper, graphite), since the counters have a different spectral sensitivity. The ratio of the intensities measured with Geiger counters with different cathodes allows the characterization of the spectral composition of the f -radiation of the ore. In order to express the results in general units (microrcentgen per hour) the radiometers are gauged with a punctiform gauge, the method of gauging,

Card 1/2

PA - 2052

Quantitative Radiometric Measurements of Radioactive Ores in their Natural Deposits.

however, does not exclude a dependence of the data of the radiometers on the spectral sensitivity of the counter. This paper determines important conversion coefficients which connect the intensity of the #-radiation with the percentage of radicactive elements in the ore. These coefficients are shown in a table and apply in the case of measurements on the surface of ore deposits and in the fissure. In the case of measurements in fissure the γ -rays of low energy scattered backwards are of great importance. With the aid of these coefficients the percentage of radioactive elements in the ore is calculated by the data of the counting devices. Experimental and theoretical investigations lead to the following conclusions which are important for practical measurements: In the case of counters that are sensitive to the soft f -radiation the dependence of the recorded intensity of T-radiation on the average number of the nuclear charge of the deposit, of the cathode material, and of the radiometer casing is to be taken into account. Furthermore, measuring of the hard f -rays with counters that are only to a small extent sensitive to soft / -rays are expedient. Not given.

ASSOCIATION:

PRESENTED BY:

SUBMITTED:

AVAILABLE:

Library of Congress.

Card 2/2

AUTHOR:

SHASHKIN, V. L.

PA - 2260

TITLE:

The Quantitative Radiometric Measuring of Radioactive Ore in Natural Deposits. II. Report. (Kolychestvennyyw radiometricheskiye izmereniya radioaktivnykh rud v yesteystvennom zaleganii. Soobshcheniye II.

Russian).

PERIODICAL:

Atomnaia Energiia, 1957, Vol 2, Nr 2, pp 157-162 (U.S.S.R.)

Received: 3 / 1957

Reviewed: 5 / 1957

ABSTRACT:

The present work discusses the method of the radiometric examination of radioactive ores from their gamma radiation and the method of quantitative interpretations of the results of γ -carottage of ore

fissures.

Radiometric investigation: The radioactivity of uranium—and thorium ores facilitates a direct determination of their uranium—and thorium content without extraction of ore samples. This method basing upon measuring the intensity of gamma radiation was described as radiometric examination. At first a formula for the connection between the intensity of γ -radiation on the surface of an infinite layer and the content of radioactive elements in this layer is given. According to this formula the content of radioactive elements in the case of constant attenuation coefficients is proportional to the intensity of γ -radiation. Theoretical bases of the method are discussed in short.

In practice, the so-called fissure screen fitted with an enclosure is mostly used. In the case of an even distribution of the ores and if the

Card 1/2

PA - 2260

The Quantitative Radiometric Measuring of Radioactive Ore in Natural Deposits. II. Report.

screening coefficient is known from the differences of the intensity of

\[\int_{\text{-radiation}}^{\text{-radiation}} \] in the case of open and closed fissures the content of
radioactive elements in the given layer can be determined. Next,
measuring in the case of an uneven distribution of ores is discussed.
Radiometric examination is carried out with different types of field
radiometers. The results of radiometric examinations are as a le controlled by means of ridge examination. The quantitative in errection
of \[\int_{\text{-carottage}}^{\text{-carottage}} \] permits the determination of the linear supply of
radioactive elements in the fissure (pit?), i.e. the product of power
of the ore body plus content. In the case of an insufficient field of
the core, gamma-carrotage is the only method that permits a quantitative observation of the fissure (pit) covered by the ore body.
The quantitative interpretation of \[\int_{\text{-carottage}}^{\text{-carottage}} \] bases upon the use
of the anomaly-surface. Details are discussed here. (3 illustrations
and 2 tables).

ASSOCIATION: Not given

PRESENTED BY

Survitted: Available:

10.7.1956

Library of Congress

Card 2/2

SHASHKIH, V.L.; SHUMILIN, I.P. Radiometric method for determining the uranium content in ore samples.

Atom. energ. Supplement no.6:126-135 '57. (MIRA 11:7)

(Radiometer) (Uranium ores--Analysis)

CIA-RDP86-00513R001548630005-9" APPROVED FOR RELEASE: 08/23/2000

SHASHKIN, .V.L.; SHUMILIN, I.P.; PRUTKINA, M.I.

GRAMMAKOV, A.G.; SHASHKIN, V.L.; SHIRYAYEVA, M.B.; SURAZHSKIY, D.Ya., red.; NIKONOV, A.I., red.; KLEPTSOV, F.F., red.; VLASOVA, H.A., tekhn.red.

[Instructions on gamma-ray testing of radioactive ores in the ore bed] Rukovodstvo po gamma-oprobovaniiu radioaktivnykh rud v estestvennom zaleganii. Moskva, Izd-vo glav.upr. po ispol-zovaniiu stomnoi energii pri Sovete Ministrov SSSR, 1959.

[MIRA 13:2]

(Radioactivity-Measurements) (Ores--Sampling and estimation)

MEZHIBORSKAYA, Kh.B.; SHASHKIN, V.L.; SHUMILIN, I.P.; PCHELINTSKVA, G.M., red.; VLASOVA, N.A., tekhn.red.

[Analysis of radioactive ores by the ß and method] Analis radioaktivnykh rud ß-7-metodom. Moskva, Izd-vo Glav.uprav.po ispol'sovaniju atomnoj energij pri Sovete Ministrov SSSR, 1960. 63 p. (MIRA 13:10)

(Radioactive substances) (Beta rays) (Gemma rays)

YAKUBOVICH, Aleksandr Lexarevich; SHASHKIN, V.L., retsensent; YEREMEYEV, A.W., red.; MUKHIN, S.S., red.isd-va; GUROVA, O.A., tekhn.red.

[Radiometric prospecting apparatus] Poiskovo-razvedochneis radiometrichaskaia apparatura. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1960. 205 p.

(MIRA 14:4)

(Radioactivity prospecting--Mquipment and supplies)

PETROV, G.I.; KUTENKOV, M.V.; TENENBAUM, I.M.; TEVSEYEVA, L.S.;

KONSTANTINOV, M.M., nauchnyy red. [deceased]; SHASHKIN, V.L.,

nauchnyy red.; SURAZHSKIY, D.Ya., nauchnyy red.; ZAVODCHIKOVA,

A.I.; red.; MAZEL', Ye.I., tekhn.red.

[Methods of geological and geophysical exploration and control in uranium mines] Metody geologo-geofizicheskogo obsluzhivaniia uranovykh rudnikov. Moskva, Izd-vo Gos.kom-ta Soveta Ministrov SSSR po ispol*zoveniiu atomnoi energii, 1960. 217 p.

(MIRA 13:10)

(Mining goology)

(Uranium ores)

SURAZHSKIY, Daniil Yakovlevich. Prinimali uchastiye: PUKHAL'SKIY, L.Ch.;
POSIK, L.N.; SHASHKIN, V.L., SMIRNOV, V.I., red.; ALYAB'YEV, A.F.,
red.; POPOVA, S.M., tekhn.red.

[Methods of prospecting and exploration of uranium deposits]
Metody poiskov i razvedki mestorozhdenii urana. Pod red. V.I.
Smirnova. Moskva, Izd-vo glav.upr.po ispol'zovaniiu atomnoi
energii pri Sovete Ministrov SSSR, 1960. 240 p.

(MIRA 13:7)

1. Chlen-korrespondent AN SSSR (for Smirnov).
(Prospecting) (Uranium ores)

SHASHKIN, V.L.

Hew instrument, theberyllometer. Atom.energ. 9 no.4:340-341
0 '60. (MIRA 13:9)

SHASHKIN, Viktor Lavrent'yevich; KOKOSOV, L.V., red.; MAZEL', Ye.I., tekhn. red.

[Methods for the analysis of natural radioactive elements] Metody analiza estestvennykh radioaktivnykh elementov. Moskva, Gos. izd-vo lit-ry v oblasti atomnoi nauki i tekhniki, 1961. 149 p.

(MIRA 14:11)

(Radioactive substances)

LEBEDEV, A.M.; TROITSKIY S.G.; SHASHKIN, V.L.

Scale factor for the quantitative interpretation of gamma-ray logging. Atom.energ. 10 no.4:394-396 Ap '61. (MIRA 14:4) (Logging (Geology)) (Gamma rays)

36782 \$/089/62/012/005/014/014 B102/B104

21.6000

AUTHORS:

Lenin, S. S., Shashkina, N. N., Shashkin, V. L.

TITLE:

Use of a-scintillation chambers in the emanation method of

radium isotope determination

PERIODICAL: Atomnaya energiya, v. 12, no. 5, 1962, 429-431

TEXT: Emanation measurements were made with α -scintillation chambers recently devised specifically for field measurements $\left[\frac{3M}{-6} \left(\frac{2M-6}{2M-6}\right)\right]$ and for laboratory use $\left[\frac{3M}{-4}\right]$. The chambers are cylindrical and their inner surface is covered with a ZnS coating of 50 - 100 mg/cm². The measurements were made with four chambers, 68 mm in diameter and 60,

100, 150, and 250 mm high respectively. The sensitivity was

 $(3-4)\cdot 10^{-13}$ Cu/pulse·min, the α -radiation utilization factor was 50%, the total utilization factor was between 11.3 and 18.5%. The former was equal for RaA and RaC¹ within limits of 10%. The experiments showed that all Rn decay products were deposited at the chamber walls, whereas the Rn was evenly distributed over the volume of the chamber. The background

Card 1/2

Use of α -scintillation chambers ...

S/089/62/012/005/014/014 B102/B104

amounted to about 1pulse/min. The sensitivities for Th determination were measured at optimal air-jet flow rates $(0.15-0.38\ l/min)$ and were $(1.1-1.8)\cdot 10^{-5}$ g Tn/pulse·min. The chambers can also be used for actinone determination by determining AcX. For these measurements the optimal air flow rate is $2-4\ l/min$. There are 1 figure and 2 tables.

SUBMITTED: February 12, 1960

Card 2/2

SHASHKIN, V.L., red.; ZASTAVENKO, V.S., red.; BORISOVSKAYA, M.A., red.; POPOVA, S.M., tekhn. red.

[Radiometry of ores] Voprosy rudnoi radiometrii; sbornik statei.

Moskva, Gosatomizdat, 1962. 214 p. (MIRA 15:7)

(Radioactive substances—Spectra)

(Radioactive prospecting)

TROITSKIY, S.G.; SHASHKIN, V.L.; BYKOVA, K.I.

Instrument spectra of γ' -radiation from infinite strata of uranium ore. Atom. energ. 12 no.1:67-70 Ja '62. (KIRA 15:1) (Gamma rays-Spectra) (Uranium)

TROITSKIY, S.G.; SHASHKIN, V.L.; BYKOVA, K.I.

Possibility for separate determination of uranium and thorium on measurements of N-ray spectra from ores occurring naturally.

Atom. energ. 12 no.1:70-72 Ja '62. (MIRA 15:1)

(Gamma rays--Spectra) (Uranium) (Thorium)

LENIN, S.S.; SHASHKINA, N.N.; SHASHKIN, V.L.

Use of &-scintillation chambers in determining radium isotopes by the emanation method. Atom. energ. 12 no.5:429-431 My 162. (MIRA 15:5) (Scintillation counters) (Radium-Isotopes)

TROITSKIY, S.G.; SHASHKIN, V.L.

Concerning the report by L.S. Polak and others "Studying the spectrum of gamma-ray scattering for solving some geophysical problems." Geol. i geofiz. no.7:107-108 '62.

(MIRA 16:7)

(Rocks—Density) (Gamma-ray spectrometry) (Polak, L.S.)

EHASHKIN, Yu. A.. Cand Phys-Math Sci -- (diss) "Guestions of the Mnity and Stability of the potential's reversible problem."

Mos. 1957. 22 pp. (Acad Sci USSR, Math Inst im A. A. Steklov),

130 copies. Bibliogr at end of text (10 titles). (KL 9-58, 113)

- I2 -

SHUSHKIN, Y- ...

	20-1-16/54
AUTHOR:	Shashkin, Yu.A.
TITLE:	On the Uniqueness in the Inverse Problem of the Potential Theory (O yedinstvennosti v ebratnoy zadache teorii potentsiala)
PERIODCIAL:	Doklady Akademii Nauk SSSR, 1957, Vol.115, Nr 1, pp. 64 - 66 (USSR)
ABSTRACT:	First reference is made to relevant preliminary works. This paper furnishes new sufficient conditions for the uniqueness of the solution of the inverse problem of the logarithmic potential. Three theorems are given: Theorem 1: When the boundaries C_1 and C_2 of two different convex domains D_1 and D_2 lie in the circular ring $R \le x^2 + y^2 \le 2R$ (where R is any positive number), the outer logarithmic potentials of these domains cannot be exactly identical, when these domains are filled with masses with any positive density $\mu(x, y)$. Theorem 2: The boundary of two different domains starlike with

regard to the pole 0, may in the polar coordinate system (r, φ) have the equations $r = r_1(\varphi)$ (i = 1, 2), where $|\log \gamma_i(\varphi_1) - \log \gamma_i(\varphi_2)| \leq \kappa |\varphi_1 - \varphi_2|$. In this con-Card 1/2

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20-1-16/54

On the Uniqueness in the Inverse Problem of the Potential Theory

nection K = tg(\overline{n} /8) = 0,4142 applies. Then the outer potentials of these domains in the case of any positive densities cannot be identical. The third theorem furnishes a condition for the uniqueness of the solution of the inverse potential problem in the non-starlike classes of domains. Of especial importance in this connection is the case that the mass is distributed with uniform density. The proofs of these theorems follow. Finally the following theorem is given: When the values of the potential $V_1(x,y)$ and $V_2(x,y)$ of two domains of the class $\{D\}$ in the case of y=0 differ less than $O(\mathcal{E})$ for any $\mathcal{E}>0$ such a $O(\mathcal{E})>0$ exists, that the domains are distant less than \mathcal{E} . There are no figures, 5 Slavic references.

ASSOCIATION:

Mathematical Instituteimeni V. A. Steklov, AN SSSR (Matematicheskiy institut im. V.A. Steklova Akademii nauk SSSR)

PRESENTED BY:

M.A. Lavrent'yev, Academician, January 15, 1957

SUBMITTED:

January 11, 1957

AVAILABLE:

Library of Congress

Card 2/2

AUTHOR: SI

SHASHKIN, Yu.A.

20-118-1-12/58

TITLE:

On the Question of the Inverse Problem of Potential Theory

(K voprosu ob obratnoy zadache teorii potentsiala)

PERIODICAL:

Doklady Akademii Nauk/1958, Vol 118, Nr 1,pp 45-46 (USSR)

ABSTRACT:

Theorem: The domains D_1 and D_2 which are star-shaped with regard to the pole 0 are assumed to be filled with media of constant density μ_1 and μ_2 with $\mu_1 > \mu_2 > 0$. If here the the exterior potentials of the domains are identically equal,

then it is D₁CD₂ .

Theorem: Let D_1 be a plane, simply connected domain limited by an analytic curve. Under filling with mass of the density $\mu_1(x,y)>0$ D_1 is assumed to possess the exterior potential V. Then there exists a domain G $(D_1 \subset G)$ with the property that each simply connected domain $D_2 \subset G$ possessing for a density $\mu_2(x,y)<\mu_1(x,y)$ the same exterior potential V satisfies the relation $D_1 \subset D_2$. 3 Soviet references are quoted.

Card 1/2

On the Question of the Inverse Problem of Potential Theory 20-118-1-12/58

ASSOCIATION: Matematicheskiy institut imeni V.A. Steklova Akademii nauk SSSR (Mathematical Institute imeni V.A. Steklov, Academy of

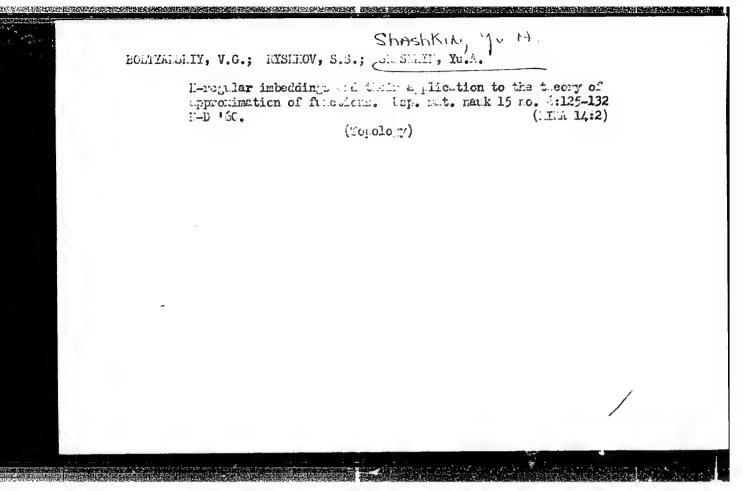
Sciences USSR)

PRESENTED: June 27, 1957, by S.L. Sobolev, Academician

SUBMITTED: June 25, 1957

AVAILABLE: Library of Congress

Card 2/2



SHASHKIN, Yu.A.

Korovkin's systems in spaces of continuous functions. Izv.AN
SSSR.Ser.mat. 26 no.4:495-512 JI-Ag '62. (MIRA 15:8)
(Banach spaces) (Functions, Continuous)

SHASHKIN, Yu.A.

On k-regular imbeddings of graphs into Euclidean spaces. Usp. mat. nauk 18 no.4:195-199 Jl-Ag '63. (MIRA 16:9)

SHASHKIN, Yu.A.

Note on adjacent vertices of a convex polyhedron. Usp. mat. nauk 18 no.5:209-211 S-0 '63. (MIRA 16:12)

ACCESSION NR: AP4014374

\$/0039/64/063/002/0215/0226

AUTHOR: Shashkin, Yu. A. (Sverdlovsk)

TITLE: Uniqueness and stability theorems for the inverse problem of the logarithmic potential

SOURCE: Matem. sbornik, v. 63, no. 2, 1964, 215-226

TOPIC TAGS: uniqueness, stability, inverse problem, logarithmic potential, attraction, star shaped region, distribution density, positive summable function, compact metric space

ABSTRACT: By inverse problem of the potential the author means the problem of determining the form of an attracting body in view of given values for its exterior potential under the condition that the density of the distribution of the masses is known. He proves uniqueness of the solution of the inverse problem of the logarithmic potential in a subclass of the class of star-shaped (or generally star-shaped) regions under the assumption that the density of the distribution of the masses is an arbitrary summable function. He also proves uniqueness in the case of doubly-connected regions in the plane. However, this latter theorem does not define the class of doubly-connected regions in which the solution of the inverse

Card 1/2

ACCESSION NR: AP4014374

problem is unique; it only asserts that two such regions coincide if their potentials coincide, and under a certain restriction on their relative position. The solution of this problem is said to be stable in some class of bodies if to infinitely small variations of the exterior potentials of bodies or this class correspond infinitely small variations of the bodies. A. N. Tikhonov (Ob ustoychivosti obratny*kh zadach, DAN SSSR, t. 39, No. 5 (1943), 195-198) noted that stability occurs in any compact class of uniqueness. This is a direct result of a known topological theorem: a one-to-one and continuous mapping of a compact metric? space is a homeomorphism. Along with qualitative criteria for stability, the author is interested in numerical estimates expressing the deviation of two bodies via the difference of their exterior potentials. He gives such an estimate for the case of the logarithmic potential. "Theorems 1 and 3 of this work (with another value for the constant K) are contained in the author's doctoral dissertation completed under the guidance of P. S. Novikov and written in 1958. The author thanks P. S. Novikov for his attention to this work and his valuable advice and comments." Orig. art. has: 23 formulas and 1 diagram.

ASSOCIATION: none

SUBMITTED: 05May62

DATE ACQ: O5Mar64

ENCL:

SUB CODE: MM 2/2

NO REF SOV: 013

SHASHKIN, Yu.A.

Topological properties of sets related to the theory of approximation of functions. Izv. AN SSSR. Ser. mat. 29 no.5:1085-1094 65.

(MIRA 18:10)

SHASHKIN, Yu.A.

Finitely defined linear operators in spaces of continuous functions. Usp. mat. nauk 20 no.6:175-180 N-D 165.

(MIRA 18:12)

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SOURCE CODE: BU/0011/66/019/001/001HOR: Shashkin, Yu. A. (Sverdlovsk)	0005/0007 2 <i>5</i>
DRG: none	B
TITIE: Best approximation by rational functions	
OURCE: Bulgarska akademiya na naukite. Doklady, v. 19, no. 1, 1966, 5-7	
OPIC TAGS: approximation method, continuous function	
ESTRACT: The author shows what the properties of a sicompact are in the case when for each function $\varphi(x)$ which is continuous fixth it the rational function closest to $\varphi(x)$ is unique (or when the set umber). The results are presented in the form of six theorems, the first of high requires an extensive proof. This paper was presented by Corresponding ember Ya. A. Tagamlitskiy on 24 September 1965. [JPRS: 36.845]	n
JB CODE: 12 / SUBM DATE: 24Sep65 / SOV REF: 003 / OTH REF: 005	
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VOL'FSON, I.S.; TELESHOVA, M.N. Prinimali uchastiye: SHEYKH-ALI, G.A.; KAMALOVA, R.K.; SHERGINA, E.G.; SHASHINA, A.D.

New oil field in the Tatar A.S.S.R. Khim. i tekh. topl. i masel 9 no.5:29-31 5 My 64 (MIRA 17:7)

1. Tatarskiy neftyanoy nauchno-issledovatel skiy institut.

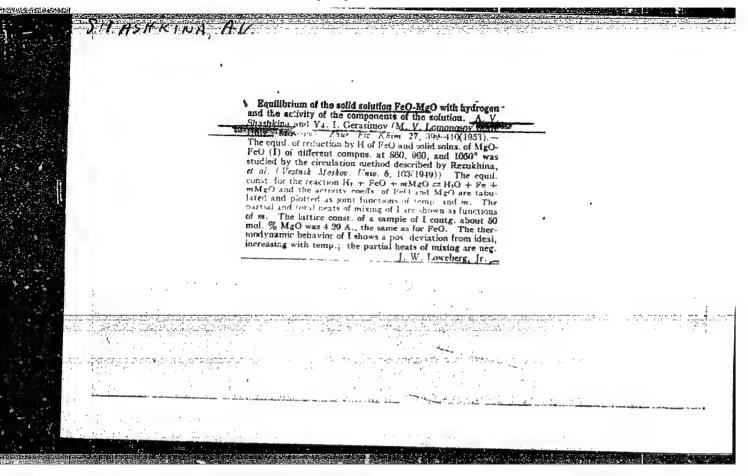
SHASEKINA. A. V.

"Reduction Equilibrium of Magnesium Ferrites With Hydrogen."
Sub 19 Oct 51, Moscow Order of Lenin State U imeni M. V. Lomonosov.

Dissertations presented for science and engineering degrees in Moscow during 1951.

Cand. Chevnice Sec.

So: Sum. No. 480, 9 May 55



5(4) AUTHOR:

Shashkina, A.V.

SOV/55-58-5-22/34

TITLE:

Investigation of the Reduction and Elektroreduction of Some Organic Substances on an Pd-Electrode. I. Reduction and Electroreduction of Dimethylacetylenylcarbinol (Izucheniye protsessov vosstanovleniya i elektrovosstanovleniya nekotorykh organicheskikh veshchestv na Pd-elektrode.I. Vosstanovleniye i elektrovosstanovleniye dimetilatsetilenilkarbinola)

PERIODICAL:

Vestnik Moskovskogo universiteta, Seriya matematik', mekhaniki, astronomii, fiziki, khimii , 1958, Nr 5, pp 135 - 144 (USSR)

ABSTRACT:

The author investigated the adsorption of dimethylacetylenyl-carbinol, its reduction and electroreduction on a Pd-electrode in acid and alkaline medium, and the influence of toxication of the electrode by atomic mercury, arsenic and cyan ions on the investigated processes. Under toxication of the electrode with Hg and As the reduction is discontinued in acid medium. Cyan ions in a small quantity activate the process in alkaline medium, however, they decelerate it for large quantities. The influence of these toxications on the electroreduction processes is similar. The corresponding opinions of N.I. Kobozev and V.V. Monblanova [Ref 9] are therefore not confirmed. On the other side it was stated that the investigated processes have the same

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Investigation of the Reduction and Electroreduction SOV/55-58-5-22/34 of Some Organic Substances on a Pd-Electrode. I. Reduction and Electroreduction of Dimethylacetylenylcarbinol

character as for application of Pt-electrodes (see A.I. Shlygin [Ref 1]).
There are 10 figures, and 9 references, 6 of which are Soviet, and 3 German.

ASSOCIATION: Kafedra fizicheskoy khimii (Chair of Physical Chemistry)
SUBMITTED: October 4, 1957

Card 2/2

5.4600

5-(3) AUTHOR: 68050

SOV/55-59-3-18/32

Shashkina, A. V.

TITLE:

Investigation of the Processes of the Reduction and Electroreduction of Some Organic Substances on a Pd Electrode. III. Re-

duction and Electroreduction of Nitromethane

Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki, PERIODICAL:

astronomii, fiziki, khimii, 1959, Nr 3, pp 135 - 149 (USSR)

The author investigated the adsorption of nitromethane on ABSTRACT:

palladium, its reduction by sorbed hydrogen, and its electroreduction, as well as the influence exerted by the medium and the poisoning of the palladium electrode upon the reaction. The experiments were carried out in 0.1 N H2SO4 or 0.1 N KOH.

The electrode consisted of palladium upon which palladium black had been deposited. The present paper gives a detailed de:scription of the adsorption of nitromethane (Fig 1), its reduction by sorbed H in an acid and alkaline medium, as well as of the effect produced by doses of various strength of Hg and As in an acid medium and of cyanogen ions in an alkaline medium

(Figs 2 - 5). Furthermore, the electroreduction of nitromethane

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Investigation of the Processes of the Reduction and Electroreduction of Some Organic Substances on a Pd Electrode. III. Reduction and Electroreduction of Nitromethane

(Fig 6) and the influence of Hg, As, and cyanogen ions upon the latter were potentiometrically investigated (Figs 7 - 10). The author obtained the following results: Nitromethane is adsorbed very quickly on the electrode. Within the first minute adsorption already amounts to 85% approximately in an acid, and 70% approximately in an alkaline medium. The nitro group is directed towards the electrode. During adsorption, there is electronic interaction between nitromethane and the electrode. The poisoning of the Pd electrode with small quantities of Hg, As, and cyanogen ions accelerates the reduction of nitromethane by sorbed H. The velocity of this reaction depends on the binding energy of the sorbed H and on the velocity of its diffusion toward the surface of the cathode. Nitromethane is reduced nearly solely by H with a low binding energy, and the latter is reduced by small additions of poison. The electroreduction of nitromethane develops very quickly in an acid medium, whereas it does not occur at all in an alkaline medium. In the electroreduction of nitromethane on a Pd electrode which contained sorbed H an

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Investigation of the Processes of the Reduction and Electroreduction of Some Organic Substances on a Pd Electrode. III. Reduction and Electroreduction of Mitromethane

activation of this process was observed in an acid medium, which was gradually suppressed by increasing poisoning with Hg or As. In an acid medium electroreduction develops as a result of protonic or electronic reaction, in which case the latter predominates. Poisoning of the electrode by considerable quantities of Hg and As suppresses protonic reaction. Small quantities of cyanogen ions cause an electroreduction of nitromethane in an alkaline medium. The author mentions a paper by N. A. Izgaryshev and A. A. Petrova (Ref 2). There are 10 figures and 7 references, 1 of which is Soviet.

ASSOCIATION:

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October 4, 1957

Card 3/3

SHASHKINA, A.V.

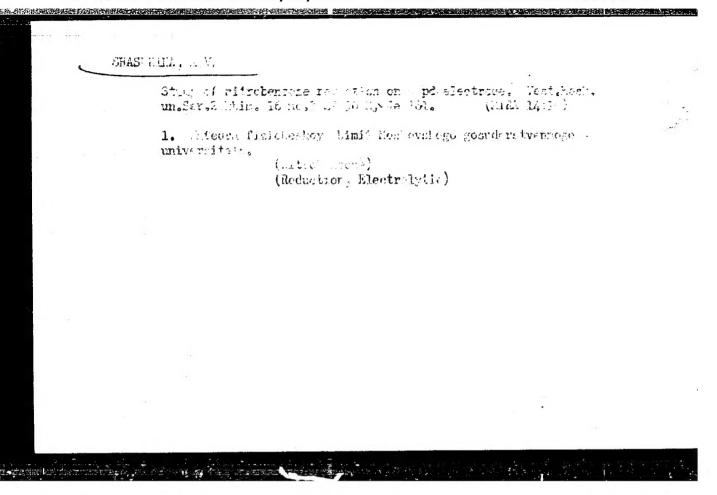
Studying the reduction and electrolytic reduction of some organic substances on a Pd electrode. Part 2: Reduction and electrolytic reduction of allyl alcohol. Vest. Mosk.un. Ser. mat., mekh., astron., fiz., khim. 14 no.1:121-133 '59. (MIRA 13:8)

1. Kafedra fizicheskoy khimii Moskovskogo universiteta.

(Allyl alcohol)

(Reduction, Chemical)

(Reduction, Electrolytic)



SHASHKINA, A.V.; KULAKOVA, I.I. (Moskva)

Reduction and electrolytic reduction of organic substances on a Pd electrode. Part 1: Reduction and electrolytic reduction of acrolein. Zhur. fiz. khim. 35 no. 4:793-802 Ap '61. (MIRA 14:5)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.

(Acrolein) (Reduction, Electrolytic)

KULAKOVA, I.I.; SHASHKINA, A.V.

Reduction and electroreduction of organic compounds of the Pd electrode. Part 3: Reduction and electrolytic reduction of methacrylic acid. Zhur.fiz.khim. 35 no.6:1198-1207 Je '61. (MIRA 14:7)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.

(Methacrylic acid) (Electrochemistry)